IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A voice over Internet (VOIP) system, comprising:
at least one infrastructure component communicating with one or more wireless devices using a wireless device over-the-air protocol different from Internet protocol (IP), the infrastructure component including:
at least one logic component facilitating communication between a target wireless device and a communication device, the target wireless device not supporting IP, the logic component undertaking method acts including:
transforming information in IP protocol to wireless device protocol;
sending the information in wireless device protocol to the target wireless device;
transforming information in wireless device protocol from the target wireless device to IP protocol; and
sending the information in IP protocol toward the communication device.

2. (Original) The system of Claim 1, wherein the wireless device protocol is a code division multiple access (CDMA) air interface protocol.

3. (Original) The system of Claim 1, wherein the infrastructure component is a base station (BTS).

4. (Original) The system of Claim 1, wherein the infrastructure component is a base station controller (BSC).

5. (Original) The system of Claim 1, wherein the wireless device protocol is an over-the-air (OTA) voice protocol.

6. (Original) The system of Claim 1, wherein the logic component converts OTA protocol packets to IP packets.

7. (Original) The system of Claim 1, wherein the logic component converts IP packets to OTA protocol packets.

8. (Original) The system of Claim 6, wherein the logic component converts IP packets to OTA protocol packets.

9. (Original) The system of Claim 5, wherein the wireless device protocol is a spread spectrum protocol.

10. (Original) The system of Claim 6, wherein an OTA protocol voice packet has a size less than the size of an IP packet.

11. (Original) A method for communicating information in IP to a wireless device not supporting IP, comprising:
transforming the information in IP to an over-the-air (OTA) protocol; and
transmitting the information in OTA protocol to the wireless device.

12. (Original) The method of Claim 11, further comprising:
transforming information in OTA protocol from the wireless device to IP; and
sending the information in IP toward a communication device.

13. (Original) The method of Claim 12, further comprising associating the wireless device with an IP address based at least in part on a location of the wireless device.

14. (Original) The method of Claim 13, wherein the method is undertaken by a communication system infrastructure component.

15. (Original) The method of Claim 14, wherein the infrastructure component is a base station (BTS).

16. (Original) The method of Claim 14, wherein the infrastructure component is a base station controller (BSC).

17. (Original) The method of Claim 11, wherein the OTA protocol is a CDMA protocol.

18. (Original) The method of Claim 12, comprising converting OTA protocol packets to IP packets.

19. (Original) The method of Claim 12, comprising converting IP packets to OTA protocol packets.

20. (Original) The method of Claim 11, wherein the OTA protocol is a CDMA voice protocol.

21. (Original) The method of Claim 11, wherein an OTA protocol voice packet has a size less than the size of an IP packet.

22. (Original) A computer program device, comprising:

means for converting information in IP from a communication system infrastructure to information in over-the-air (OTA) protocol packets to render first converted packets;

means for converting information in OTA protocol packets from a wireless device to IP packets to render second converted packets; and

means for providing communication between the wireless device and the infrastructure using the first and second converted packets.

23. (Original) The device of Claim 22, wherein a first converted packet has a size smaller than a second converted packet.

24. (Original) The device of Claim 23, wherein a first converted packet has a size smaller than a header of a second converted packet.

25. (Original) The device of Claim 22, wherein the OTA protocol is a CDMA protocol.

26. (Original) The device of Claim 22, wherein the logic means are executed by an infrastructure component.

27. (Original) The device of Claim 26, wherein the component is a base station or a base station controller.

28. (Original) The device of Claim 22, further comprising:

means for associating the wireless device with an IP address based at least in part on a location of the wireless device.

29. (Original) The device of Claim 22, wherein the OTA protocol is a CDMA protocol.

Claims 30-38. (Cancelled)

Claims 39-59. (Previously Cancelled)

Claims 60-68 (Cancelled)

69. (New) The system of Claim 1, wherein the infrastructure component is a gateway for a satellite communication system.

70. (New) The system of Claim 5, wherein the wireless device protocol is a protocol selected from the group of protocols consisting of: CDMA, WCDMA, TDMA, TD-SCDMA, UMTS.

71. (New) The method of Claim 14, wherein the infrastructure component is a gateway for a satellite communication system.

72. (New) The method of Claim 11, wherein the wireless device protocol is a protocol selected from the group of protocols consisting of: CDMA, WCDMA, TDMA, TD-SCDMA, UMTS.

73. (New) The system of Claim 1, wherein the information represents digitized voice, or digital data, or digitized image data.

74. (New) A voice over Internet (VOIP) system, comprising:
at least one infrastructure component communicating with one or more wireless devices using a wireless device over-the-air protocol different from Internet protocol (IP); and
at least one wireless communication device communicating with the infrastructure, the wireless communication device not supporting IP.

75. (New) The VOIP system of Claim 74, wherein the wireless device is a target wireless device, and the infrastructure component includes:
at least one logic component facilitating communication between the target wireless device and another communication device, the target wireless device not supporting IP, the logic component undertaking method acts including:
transforming information in IP protocol to wireless device protocol;
sending the information in wireless device protocol to the target wireless device;
transforming information in wireless device protocol from the target wireless device to IP protocol; and
sending the information in IP protocol toward the other communication device.

76. (New) The system of Claim 73, wherein the wireless device protocol is a code division multiple access (CDMA) air interface protocol.

77. (New) The system of Claim 73, wherein the infrastructure component is a base station (BTS).

78. (New) The system of Claim 73, wherein the infrastructure component is a base station controller (BSC).

79. (New) The system of Claim 73, wherein the infrastructure component is a gateway for a satellite communication system.

80. (New) The system of Claim 73, wherein the wireless device protocol is an over-the-air (OTA) voice protocol.

81. (New) The system of Claim 73, wherein the logic component converts OTA protocol packets to IP packets.

82. (New) The system of Claim 73, wherein the logic component converts IP packets to OTA protocol packets.

83. (New) The system of Claim 79, wherein the logic component converts IP packets to OTA protocol packets.

84. (New) The system of Claim 78, wherein the wireless device protocol is a spread spectrum protocol.

85. (New) The system of Claim 79, wherein an OTA protocol voice packet has a size less than the size of an IP packet.

86. (New) The system of Claim 84, wherein the infrastructure component is part of a communications infrastructure undertaking no devocoding.

87. (New) The method of Claim 11, wherein the wireless device is a first wireless device and the first wireless device communicates with a second wireless device in a call, and the method includes not undertaking tandem vocoding in the call.

88. (New) The system of Claim 30, wherein the infrastructure communicates information from one infrastructure endpoint to another infrastructure endpoint in a call between two wireless devices without vocoding or devocoding the information.